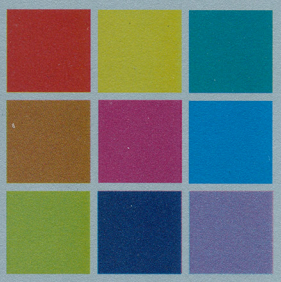


seriously powerful graphics

PAINTBOX® *Esprit*

PAINTBOX® F.A.T

QUANTEL

PAINTBOX®

seriously powerful graphics

Seriously powerful **graphics**

Paintbox is the finest television graphics system in the world. Paintbox artists benefit from the richest toolset, the most elegant ergonomics and the fastest way to turn their ideas into informative graphics for news, weather reports, sports results summaries and station and programme idents.

Renowned for its creativity, productivity and reliability, Paintbox is the cornerstone on which many stations' graphics teams are based.

abc USA

In an age of rapidly multiplying channels, looking good on air has never been so important. Paintbox has the graphics armoury to meet the challenge: paint, graphics, retouching, keying/cut/paste, colour correction, texture, custom brushes, text and the world's finest airbrush, with seamless network connectivity and built-in 16:9 DTV capability.

No wonder that, whatever the task and however short the deadline, so many broadcasters rely on Paintbox to stand out and stay ahead.

The Paintbox pedigree

Since the first Paintbox took the television world by storm, this digital image manipulation system has always been the leader in its field.

Many Classic Paintboxes are still going strong 15 years on. Today, with over 2,500 Paintboxes installed, broadcasters and post production companies across the world enjoy its creative and commercial benefits.

Broadcasters count on its reliability and speed to get late-breaking news to air with sophisticated graphics. In post production Paintbox pays for itself over and over again.

Releasing imagination

Blistering speed of operation is complemented by superb Quantel ergonomics - including the renowned pressure-sensitive pen and tablet - to deliver a completely natural way of working. It is as close to paint on canvas as an artist can get in the digital domain.

Only Paintbox provides the power for realtime working across multiple layers. The technology is invisible to the artist, all they see is a system that matches the speed of thought, making graphics production a totally interactive and creative process.

PAINTBOX® Esprit

BBC UK

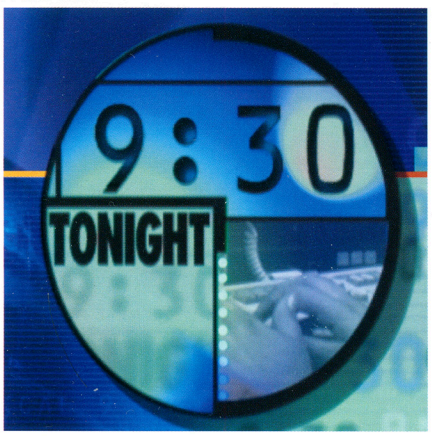
Driven by innovation

Driven by the same spirit of innovation, Quantel has re-engineered Paintbox to meet the needs of today's highly competitive networked environment. The result is not one but two all-new Paintboxes set to redefine the industry standard for still and animated graphics.

Now new and established broadcasters can choose Paintbox Esprit for stunning graphics and Paintbox F.A.T (Full Animation Toolset) for dynamic animations.

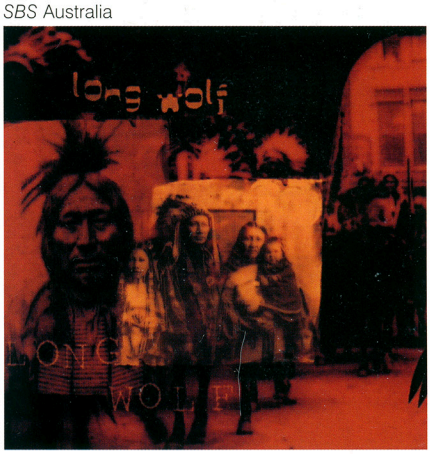
PAINTBOX® F.A.T

K-CAL USA

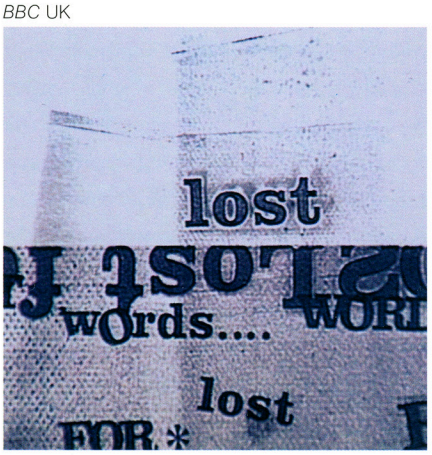


Preventa Venezuela

SBS Australia



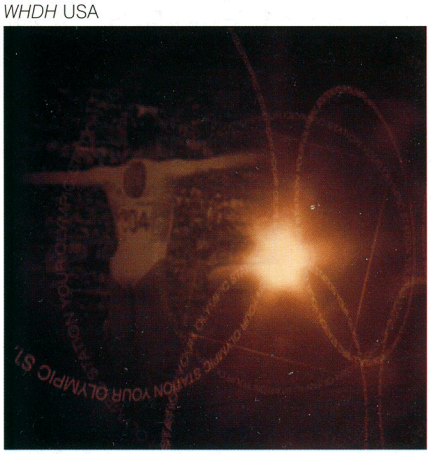
BBC UK



BBC UK

NHK Japan

WHDH USA



PAINTBOX® Esprit

the seriously affordable Paintbox

Seriously **affordable** graphics

Paintbox Esprit is a fully-loaded no-compromise Paintbox. Every tool, every feature and all of the power needed to deliver the best graphics, come as standard with Paintbox Esprit.

Paintbox Esprit is essential for aspiring broadcasters, hungry for ratings. Now any station or facility has the chance to own a piece of Paintbox magic.

Creativity

Paintbox Esprit excels in working with different graphic layers and producing a seamless result. Designers can rapidly build composites from a host of sources, paint in a textured background with a custom brush, manipulate type, receive a computer generated image from a PC, import a background from a caption camera, position elements using a Grid, and colour correct the whole piece to produce a stunning graphic. Only Paintbox Esprit has the power to make such potentially complex tasks look so simple.

Productivity

Paintbox Esprit is a phenomenally productive graphics station. Designers use Paintbox Esprit's unique Layout Table to see, select and load all picture elements quickly and easily while the Grip™ hand unit offers shortcut commands and fast storyboard replay.

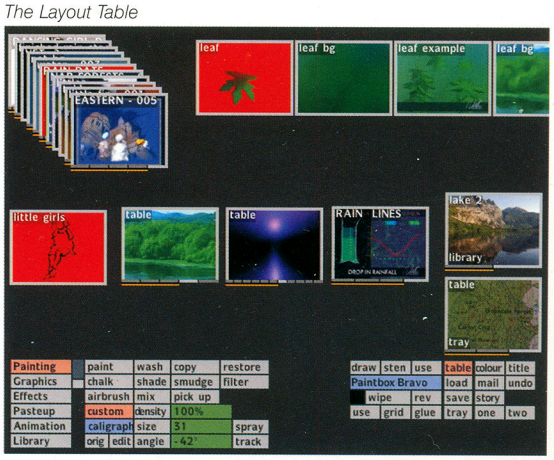
Paintbox Esprit's efficient library management and split second recall time become vital factors when under intense deadline pressure.

Versatility

From an over-the-shoulder rush job to a complex textured piece for a programme ident, Paintbox Esprit handles all graphics projects superbly. Its versatile colour correction produces stunning colour effects or seamless composites. Convincing montages of graphic elements also depend on fast and effective keying. Paintbox's powerful point and shoot keyer creates stencils with one pen tap, so that image elements can be isolated from their background quickly and easily.

Complete graphics power: Paintbox Esprit

The Layout Table



Complete toolset

Paintbox Esprit's comprehensive feature set is unparalleled in the graphics world:

- Artist's workstation including pen and tablet, keyboard and Grip
- Layout Table image management system
- Pressure-sensitive paint, chalk, air and custom brushes
- 99 layer paste-up facility with 3D perspective

- Randomness and modulation of brush size, density and colour
- Graphic shapes - lines, rectangles, circles, ellipses
- Comprehensive effects - keyer, colour corrector, mosaic, blur, explode, transform and texture
- Special brushes including copy, shade, crisp, blur
- 1,085 vector fonts plus TrueType Font import
- 4,000-image video stills store
- Contour picture bending, global control, attach across all layers
- Cell animation
- Macro and sequence automation
- Open Picturenet® connectivity
- Full file card information and multi-stills browse capability
- Java-enabled

Options

- ***Remote magneto optical option***

  Network access to MO cartridges for any number of networked devices. Networking the MO drive also means that it can be positioned where it is most needed - next to the designer.

- ***Video input option***

  Video input for live video grabs, recording from a VTR or a caption camera. Component analogue and serial digital video and key inputs are provided.

- ***Digital output option***

  Video output provides component analogue video and key outputs and serial digital video and key outputs.

Technical specification

- 3U mainframe with rack-mounting kit
- Integral 4 Gbyte fixed disk
- Open Picturenet interface c/w 100Base-Tx RJ-45 Ethernet connection
- 4:3 and 16:9 switchable
- 525/60 and 625/50 switchable
- 110 - 240 Vac

Interfaces

- 1 x RGB monitor output

Output option provides

- 1 x RGB/YUV video output with 1 x key output
- 2 x serial digital outputs with associated key.

Input option provides

- 1 x component analogue video and key input
- 2 x serial digital video and key inputs

More information

Contact your local sales office for our Product Guide or visit www.quantel.com/3208paintbox/

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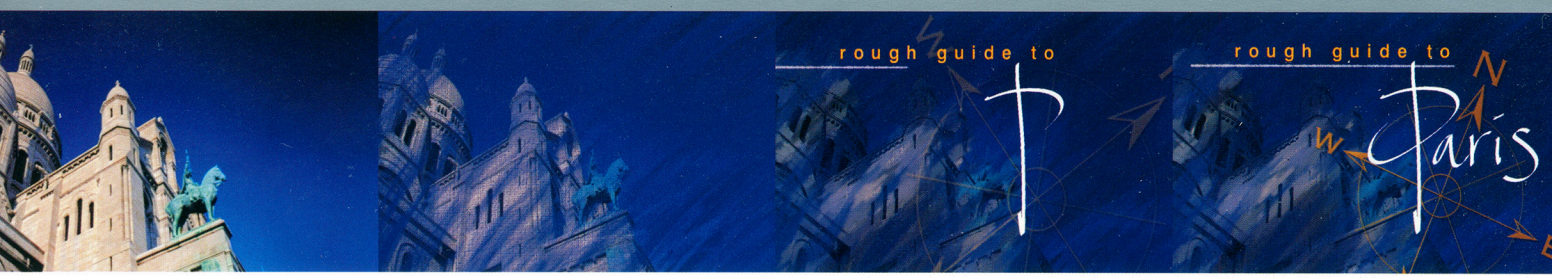
PAINTBOX® F.A.T

the big animating Paintbox



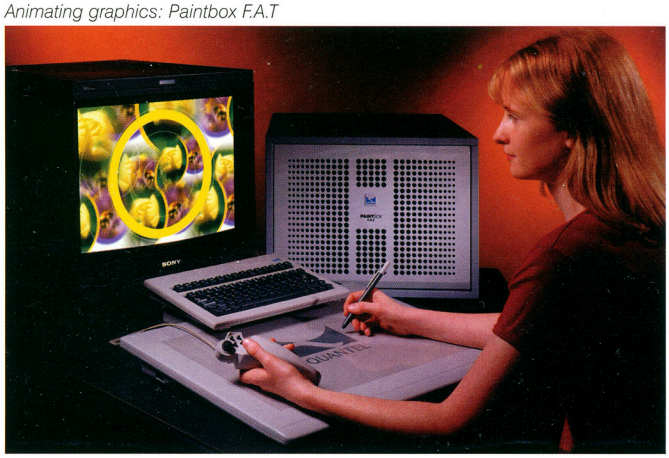
Seriously powerful **animations**

Paintbox F.A.T offers all the features and tools of the world's best graphics system - Paintbox Esprit - combined with a full animation toolset - everything needed to create stunning graphic animations over live action.

Graphics in motion

Graphics animations are vital for news, sports and other programmes. Paintbox F.A.T animations allow designers to recreate action despite lack of filmed footage. Paintbox F.A.T is sure to revolutionise a market pioneered by Quantel's earlier dynamic graphics system, Harriet.

Animating graphics: Paintbox F.A.T



Flexible manipulation

Paintbox F.A.T's Clips desk makes video manipulation as easy as working with stills. Thanks to the familiar interface, all those designers around the world reared on Paintbox can now translate their ideas into moving graphics.

The power to deliver

Paintbox F.A.T is the essential tool to produce moving graphics quickly, with all the quality and creativity expected from Paintbox. A massive 5,000 frame integral video store, digital inputs and outputs and optional digital audio are all crammed into this system. Super-fast processing gives designers the power to generate an amazing number of graphics per hour. When news directors want animations, with Paintbox F.A.T the graphics team can deliver.

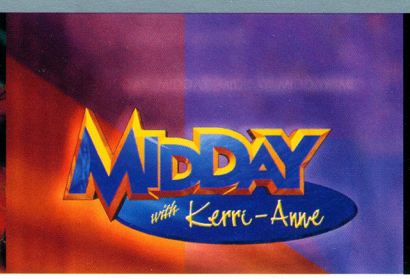
Versatile operation

With Paintbox F.A.T, designers can create elements from scratch, or composite an unlimited number of moving graphic elements. For the final touch, all these moving elements can be placed over a background layer of video.

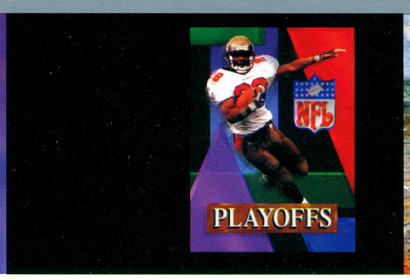
Creative animations

Keying, blur, mosaic and transform can all be quickly applied across all layers of the animation. With keyframeable curves, designers have an ideal way of animating graphs.

Colour correction can fix problem shots and single point tracking can remove 'camera shake', or enable animation to follow background action. The stretch facility offers production and creative benefits - designers can match a graphic's length to its voiceover or introduce a slow-mo for added impact.



TCN9 Australia



WWL-TV USA

Imagica Hong Kong

Consistent visual style

With its powerful networking technology, Paintbox F.A.T brings all the graphic elements together - including computer generated 3D - and applies a consistent programme or channel style quickly and easily.

Archived versions are stored on tape with all the necessary set-ups so an entire job can be recreated at a later date in the same format but with different footage.

Quality at speed

All layers are non-compressed 601 quality, so the output does not have to suffer just because of a looming deadline.

The ultimate toolset

Paintbox F.A.T is sure to transform graphics and news animations for broadcasters and post production. Its advanced features include:

- Artist's workstation including pen and tablet, keyboard and Grip
- 99 keyframeable layers paste up with 3D perspective
- Essential editing facilities
- 5,000 video frame storage
- 1,2 and 4 point tracking
- Realtime playout/VTR control
- 16:9 DTV ready
- Pressure-sensitive paint, chalk, air and custom brushes
- Randomness and modulation of brush size, density and colour
- Graphic shapes - lines, rectangles, circles, ellipses
- Comprehensive effects - keyer, colour corrector, mosaic, blur, explode, transform and texture
- Special brushes including copy, shade, crisp, blur
- 1,085 vector fonts plus TrueType Font import
- Contour picture bending, global control, attach across all layers
- Cell animation
- Macro and sequence automation
- Open Picturenet connectivity
- Java-enabled
- Comprehensive library management with full file card information and multi-stills browse capability
- Remote magneto optical disk*
- 48kHz AES/EBU audio digital stereo inputs and outputs *

*option

More information

Contact your local sales office for our Product Guide or visit www.quantel.com/3208paintbox/

Technical specification

- 8U mainframe c/w rack-mounting kit
- Integral 4 Gbyte fixed disk
- Additional 4 Gbyte network-visible fixed disk
- Open Picturenet interface c/w 100Base-Tx RJ-45 ethernet connection
- 4:3 and 16:9 switchable
- 525/60 and 625/50 switchable
- 110 - 240 Vac

Interfaces

- 1 x component analogue video and key input
- 3 x serial digital video inputs
- 1 x component analogue video output
- 4 x serial digital video outputs
- 1 x RGB monitor output
- RS-422 VTR Control

QUANTEL

OPEN

OPEN for **flexible networking**

Quantel has long pursued a strategy based on openness and integration. Today, the immense power of Quantel's special mix of application-specific hardware and software is open for pictures and open for programming.

This level of flexibility extends to digital television. Paintbox delivers the 16:9 picture quality required by any broadcaster facing the digital revolution with a press of the pen. Paintbox is also ideal for generating graphics for the Web or for DVD.

Powerful networking

Quantel's Open Picturenet is standard on both Paintbox models. This powerful networking capability offers users maximum added value by allowing total integration of all image resources.

Open Picturenet enables fast transfer of pictures around a network of Quantel systems and also offers flexible exchange of images with any standard platform via TCP/IP using TIFF, Targa or Quantel's VPB format. All image transfers are a background process, so creative work can continue uninterrupted. Any purchased TrueType font can also be imported from any other machine via Quantel's Open interface.

Open Picturenet provides excellent interconnection with editing and video design suites and transmission still stores such as Quantel's Picturebox®2 and Pictureframe® as well as enabling third-party access for browse or image transfer.

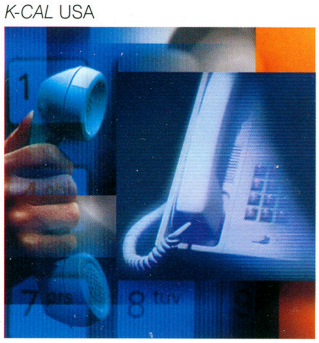
Whether working across a Local or Wide Area Network, Paintbox offers the kind of responsiveness and versatility that modern broadcasters need.

Java on Quantel

Users and other third-party software developers can produce applications of their own to run on Quantel systems including Paintbox F.A.T and Paintbox Esprit. With Java on Quantel, any number of customised Java applications can be seamlessly integrated into the powerful Paintbox feature set.

The Quantel Java Virtual Machine is simply installed as a software option requiring no additional hardware. The scope of applications is limited only by the imagination of the users and by the ingenuity of the developer community. Now anything is possible.

K-CAL USA



BBC UK

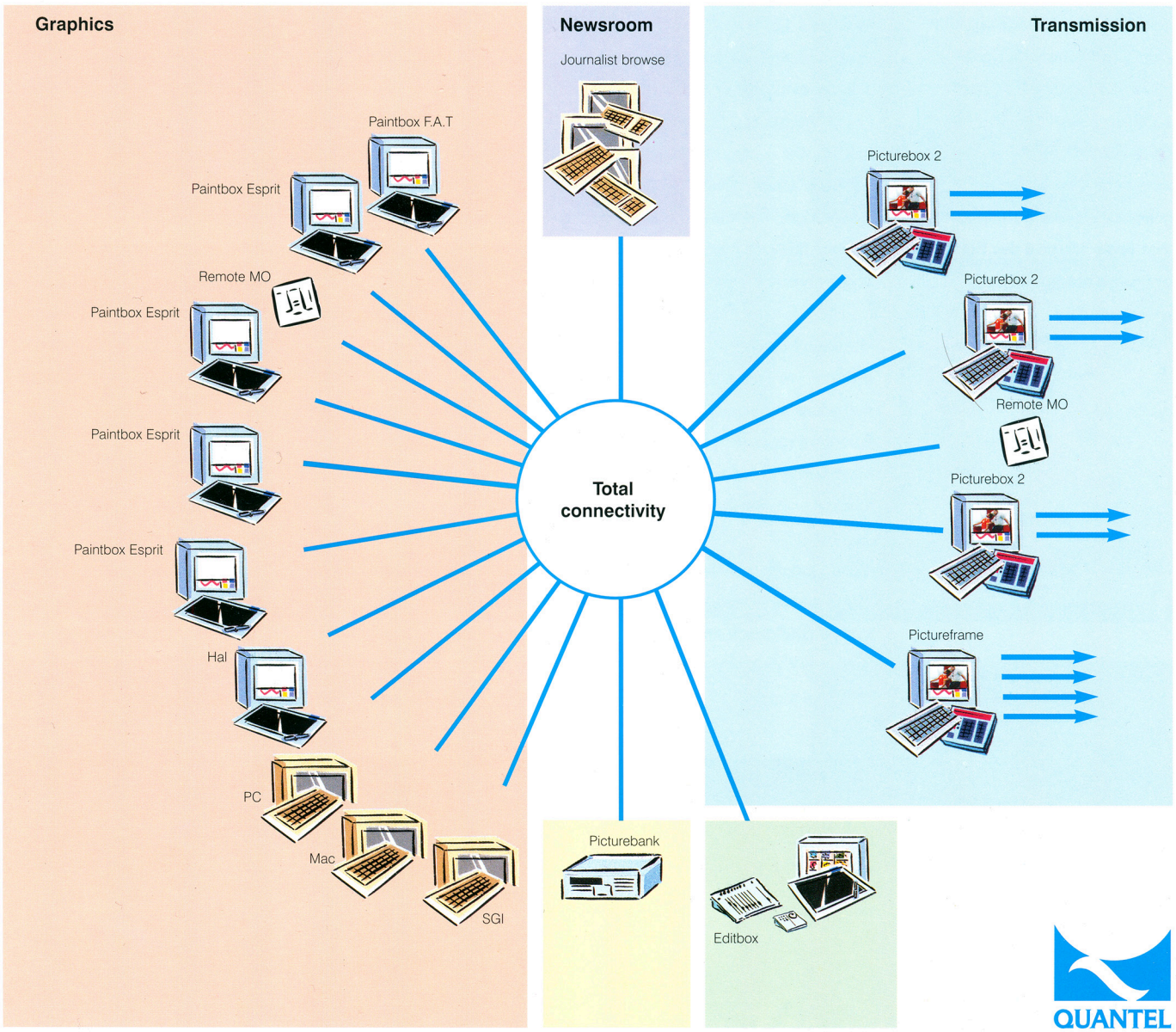
Preventa Venezuela

JAVA on Quantel

pictures
pictures
open
protocols
protocols
programming
programming

Total connectivity

In a broadcast environment, Open Picturenet networking provides superb integration of all systems.



QUANTEL

ABOUT QUANTEL

No **limits.** No **compromise.**

Quantel has been serving its clients in the broadcast, film, post production and print industries for over a quarter of a century. During that time, Quantel's uncompromising approach to technology has produced system milestones that have shaped the history of image manipulation.

Engineering excellence

Quantel's 125,000 sq ft manufacturing plant, research and development centre and dedicated training facility is based at its global headquarters in Newbury, UK. A network of 13 Quantel offices around the world delivers first-rate product advice and technical support.

The proud holder of nine Queen's awards, five Emmies and numerous industry plaudits, Quantel's reputation for engineering excellence is second to none.

Many Quantel customers opt for multiple installations - a testament to their confidence in the company's equipment and its technical support.

Customer care

At Quantel, customer commitment starts long before any system is actually delivered.

- An all-encompassing quality policy ensures best-practice manufacturing
- Exhaustive test procedures guarantee systems work on arrival
- Constant system development protects Quantel-owners' advantage
- Robust system-build provides rock-solid reliability

Worldwide care

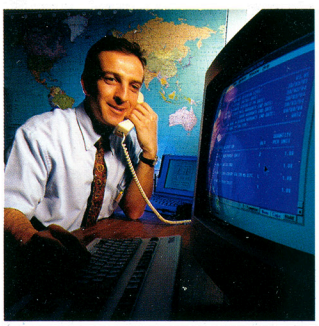
If a problem should arise then there is only one company to call. As well as 24-hour international telephone support, Quantel's worldwide network of support centres provides access to invaluable expertise.

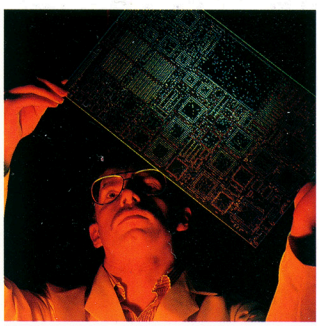
Solutions can even be delivered via modem to a connected machine as part of Quantel's remote diagnostics capability.

A choice of structured-but-flexible customer support schemes, from telephone support and fast parts-replacement to preventive maintenance and fixed-cost cover for all hardware and software, are available. Quantel Care offers a cost-effective choice to suit all needs and budgets.

Training the team

After investing in the best systems, customers can invest in the best training for their team. Quantel's courses enhance engineers' problem-solving techniques and operators' creative abilities.





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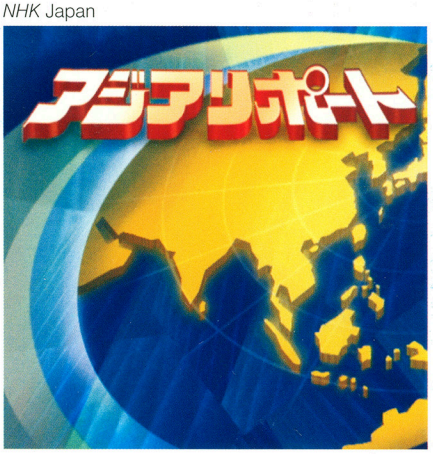
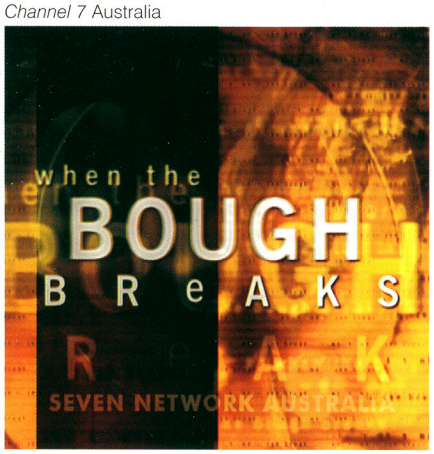
BBC UK

NHK Japan



SBS Australia

Channel 7 Australia



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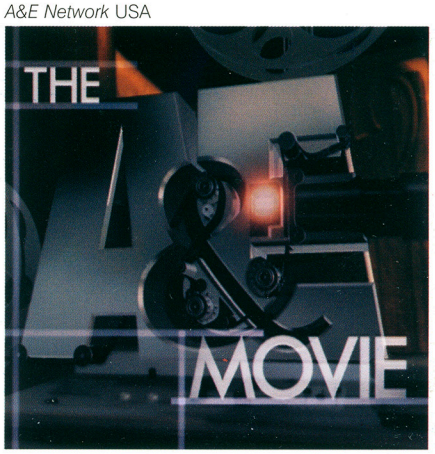
A&E Network USA



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Thanks to our customers for the use of images.

The features listed in this brochure are only a partial list of the systems' capabilities. Specific functionalities and capabilities may be changed over time and are detailed in full in the Product Guide. Quantel's policy of continuous product improvement will result in many further enhancements. Quantel reserves the right to alter specifications without notice. Contact your local sales office for further information.

UK Quantel Ltd
Turnpike Road, Newbury, Berkshire RG14 2NE England
T +44 (0) 1635 48222 **F** +44 (0) 1635 31776

USA Quantel Inc.
28 Thorndal Circle, Darien, CT 06820
T +1 203 656 3100 **F** +1 203 656 3459

Australia Quantel Pty Ltd
8/81 Frenchs Forest Road, Frenchs Forest, NSW 2086
T +61 (0) 2 9452 4111 **F** +61 (0) 2 9452 5711

Canada Quantel Canada
5025 Orbitor Drive, Building 1, Suite 103
Mississauga, Ontario, L4W 4Y5
T +1 905 238 6670 **F** +1 905 238 8282

France Quantel Micro Consultants
6, rue Anna Jacquin, 92100 Boulogne
T +33 (0) 1 46 99 92 00 **F** +33 (0) 1 46 99 05 10

Germany Quantel GmbH
Mottmannstr. 4 A, 53842 Troisdorf
T +49 (0) 2241 498-0 **F** +49 (0) 2241 49 81 60

Hong Kong Quantel Asia Ltd
Rm 904-905, Greenfield Tower, Concordia Plaza,
1 Science Museum Road, Tsim Sha Tsui, Kowloon
T +852 2366 1321 **F** +852 2369 6678

Italy Quantel srl
Via Giovanni Paisiello 47/C, 00198 Rome
T +39 (0) 6 855 5359 **F** +39 (0) 6 8535 3988
Milan office **T** +39 (0) 2 612 6281 **F** +39 (0) 2 617 3409

Japan Quantel KK
6-5-55 Minami-Aoyama, Minato-ku, Tokyo 107-0062
T +81 (0) 3 3400 5711 **F** +81 (0) 3 3400 5712

Korea Quantel Korea
Room 609 Dong Buk Building
45-20 Yoido-Dong Youngdungpo-Gu, Seoul
T +82 2 780 0950 **F** +82 2 783 1088

Singapore Quantel SE Asia
79 Anson Road #07-03, Singapore 079906
T +65 222 6564 **F** +65 222 5064

Spain Quantel España SA
Edificio Ginebra, Avda. de Europa 2,
Parque Empresarial la Moraleja, 28108 Madrid
T +34 91 661 6601 **F** +34 91 661 2972

The Netherlands Quantel Benelux
Hilversum Business Centre, Koninginneweg 11
1217 KP Hilversum
T +31 (0) 35 625 0632 **F** +31 (0) 35 625 0637

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